

Title (en)
MACHINE FOR PUTTING LIDS ON BOXES OF DIFFERENT FORMATS

Title (de)
MASCHINE ZUM AUFSETZEN VON DECKELN AUF SCHACHTELN VERSCHIEDENER FORMATE

Title (fr)
MACHINE POUR LA MISE EN PLACE DE COUVERCLES SUR DES BOÎTES DE DIFFÉRENTS FORMATS

Publication
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Application
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Abstract (en)
The present invention describes a machine for putting lids on boxes of different formats which comprises two inlet areas (2) for sheets (1) with the corresponding sheet stacking areas (3), two closing male elements (17), a sheet capturing device (5) with a head (7) that incorporates suction cups (6) on two opposite sides in order to catch sheets (1) from any of the stacking areas (3) and deposit them, by activating a mechanism (13), on a guide (15) with brackets (19) to be inserted by means of a pusher (21) into additional brackets (19) comprised by each of the closing male elements (17), which are movable to align with the guide (15) depending on the type of box selected from the stacking area (3) and to subsequently move the sheet (1) over the box to put a lid on it.

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Citation (search report)

- [A] ES 1140761 U 20150702 - BOIX MAQUINARIA SL [ES]
- [A] ES 1242845 U 20200305 - BOIX MAQUINARIA SPAIN SLU [ES]
- [A] GB 2189184 A 19871021 - BOIX MAQUINARIA SA
- [A] KR 102164822 B1 20201013 - JMC [KR]

Cited by
CN117885973A

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